

Pipe Location and Leak Detection—with hands-on experience at Essex Junction / White River Junction Water Systems

Dates & Locations (choose one):

- July 13, 9:00am-1:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT
- July 27, 9:00am-1:30pm, Public Safety Building, 812 VA Cutoff Rd, White River Jct, VT

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructor: Warren Verga (360 Utility Solutions), Eric Denslow (Eastcom Assoc.)

Proctor: Matt Guerino (VRWA)

This course is designed to help operators use equipment for leak detection and pipe location. From identifying appropriate tools to how the tools work, this course will educate Water Systems Operators on different methods of identifying water system leaks and pipe location. Also, new technologies in equipment that allow integrating asset management, mapping, and GIS information with leak detection programs will be discussed. In addition to in-class time, this course will also go out and review leak detection processes and pipe location in the water system.

Operation & Maintenance Manuals for Water Systems

Dates & Locations (choose one):

- August 2, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT
- August 16, 9:00am-12:30pm, Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructor: Matt Guerino (VRWA)

This course will take your through the Drinking Water and Groundwater Protection Division's Operation and Maintenance Manual guidance document. We will go through all aspects discussing the detail that makes this document a key asset for your water systems sustainability. O&M Manuals are a requirement for community and non-transient, non-community water systems. Please bring your approved O&M Manual to the course, these can be reviewed and discussed individually or in small groups.

NEW How Technology Is Changing The Water Utility Industry

Date: August 10, 2017

Time: 9:00am-1:30pm

Location: Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructor: Tommy Birdsall (Stiles Co.)

Proctor: Matt Guerino (VRWA)

Technology change is part of our everyday lives and cannot be avoided. However, water utilities, typically, have been slow to adapt to new technology. How will this affect your water utilities operation with the rapid changes in technology? The presentation will provide tips and provide information on:

- Advancements in Meters
- No Moving Parts
- Enhanced Resolution
- Improved Encoder Registers
- Cloud Computing
- SAS - Software as a Service
- AMA—Advanced Metering Analytics
- Enhanced Customer Engagement
- Infrastructure Free AMI Technology
- Questions and Answer Session
- Round Table Discussions

Stiles Co. will be providing lunch for all attendees!

Sampling Seminar

Dates & Locations (choose one):

- August 24, 9:00am-12:30pm, Bennington Fire Dept, 130 River Street, Bennington, VT
- September 22, 9:00am-12:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24



Instructors: Eileen Toomey and Rod Lamothe (Endyne)

Proctor: Matt Guerino (VRWA)

Designed for water and wastewater operators or representatives of these systems, this seminar covers sampling protocol and recommended procedures will be covered in detail. Reviewing basic sampling on chemical, bacteriological samples. BOD, TSS, and other frequently sampled constituents. Updating your Field Form/Chain-of-Custody for labs.

Key

 = approved for water credit

 = approved for wastewater credit

Advanced Water Operator Certification Class 3&4

Dates: September 6, 7, 13, 14, 20, 27, 28 and October 4 & 5, 2017

Time: 9:00am-2:30pm

Location: Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 45 TCH W

Non-member cost: \$225 (plus \$250 for books)

Member cost: \$180 (plus \$250 for books)

Instructor: Matt Guerino (VRWA) and other presenters

This training program is designed for new Class 3 & 4 public water system operators. The program will help prepare individuals to take the Vermont State Class 3 & 4 Water Operator Certification exams. All aspects of water operations are covered during this multi-week course. Attendees are expected to attend all given sessions.

Required Texts (Will Be Provided)

- AWWA Water Treatment
- AWWA Basic Science Concepts and Applications
- AWWA Operator Certification Study Guide
- Math Handbook for Water System Operators

Distribution Certification Course

Dates: September 6, 7, 13, 20, 21, 27, 2017

Time: 9:00am-2:30pm

Location: Rutland Regional Planning Commission, 67 Merchants Row, Rutland, VT

Credit: 30 TCH W

Non-member cost: \$150 (plus \$190 for books)

Member cost: \$120 (plus \$190 for books)

Instructor: Matt Guerino (VRWA) and other presenters

This course is designed for those involved with the distribution of potable water who are seeking a Class D certification.

The following texts are required for this course and will be provided during the first session:

- AWWA Transmission and Distribution
- AWWA Operator Certification Study Guide
- Math Handbook for Water System Operators

Topics in this class will include:

Distribution certification · Water Supply Rule · Water sampling procedures · Basic water chemistry · Water hydraulics · Distribution system design · Tank design · Blueprint reading · Pumps and pumping · Valve operation and maintenance · Cross connections · Hydrants and flushing program · Meters and backflow · Leak detection · VOSHA regulations · Instrumentation and controls · Water mathematics

Basic Water and Wastewater Math Review

Date: September 15, 2017

Time: 9:00am-12:30pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT

Credit: 3 TCH

Non-member cost: \$30 W

Member cost: \$24 WW

Instructor: Matthew Guerino (VRWA)

This course focuses on practical math skills for operators. Math topics covered will include fractions, decimals, percents, equations, and unit conversions. In addition formulas for area, volume, pressure, flow, velocity, chemical dosage, and other waterworks topics will be covered. This training is applicable for new or existing operators and for those planning on taking certification exams.



2017 Tony Torchia Award winner Dick Pratt (Champlain Water District) pictured with wife Anne at the Vermont Rural Water Annual Conference and Trade Show, May 4th, 2017 in Fairlee, VT

Key

W = approved for water credit

WW = approved for wastewater credit



Steven LaRosa (Weston and Sampson) discusses Emerging Contaminants at the Vermont Rural Water Annual Conference and Trade Show, May 4th, 2017 in Fairlee, VT

Registration Information

Deadline: Two business days before course date. Registrations received less than two days before a session are subject to a \$20 late fee. **No walk-ins allowed. Sign-in begins 15 minutes before the start of the course.**

Register on the web:

www.vtruralwater.org

Register by mail: Complete the form below and send it with a check or money order for the full amount to:

**VRWA
20 Susie Wilson Road, Suite B
Essex Jct., VT 05452**

Register by fax: You may complete the form below and fax it to **866-378-7213**.

Seating is limited, so register early. Your cancelled check confirms your registration; you will only be notified if the course is cancelled.

Fees

Due to government support secured by VRWA, we are able to offer courses at a reduced rate. The actual training is free of charge, but all courses have a materials fee.

Cancellations / Refunds

If you will be unable to attend a class, you must contact our office at least 24 hours in advance to receive a refund.

Member rate

VRWA member systems receive a 20% discount. To join VRWA, call 802-660-4988 or visit www.vtruralwater.org.

Special needs

Please contact us at 802-660-4988 prior to your class if you have any special needs.

Credit

Training Contact Hours (TCHs) are awarded for all training courses. These are applicable for operator certification in Vermont. You must attend 100% of the course in order to receive TCHs. Course objectives determine whether credits are applicable to a water operator or a wastewater operator's certification; some courses apply to both types of certification. **All attendees will receive a record of TCHs earned after completing a course.** Reprints of lost TCH certificates are available for a fee.

Registration Form

Duplicate this form to sign up for more than one course.

Course Name _____

Date & Location _____

Attendee Name(s) _____

Facility/Business _____ **WSID# or WW#** _____

Address _____

City, State, Zip _____

Phone _____ Emergency Phone (for cancellations due to weather): _____

Email _____

Total Payment Enclosed _____

Questions? Call 802-660-4988.



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www.vtruralwater.org

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CURRENT RESIDENT OR

To view the most current training schedule, visit www.vtruralwater.org

Do not discard until September 30, 2017.

**IMPORTANT WATER & WASTEWATER OPERATOR
TRAINING ANNOUNCEMENT ENCLOSED**

- Preferred scheduling for onsite visits
- Phone consultations
- Source protection planning
- Quarterly training announcements
- Quarterly newsletter
- 20% discount on all applicable fees
- Free classified ads on VRWA's website
- Networking opportunities
- Representation for your system at the state and national level
- Advocacy for continuation of rural water programs and services

VRWA membership provides the following benefits to your system:

Membership